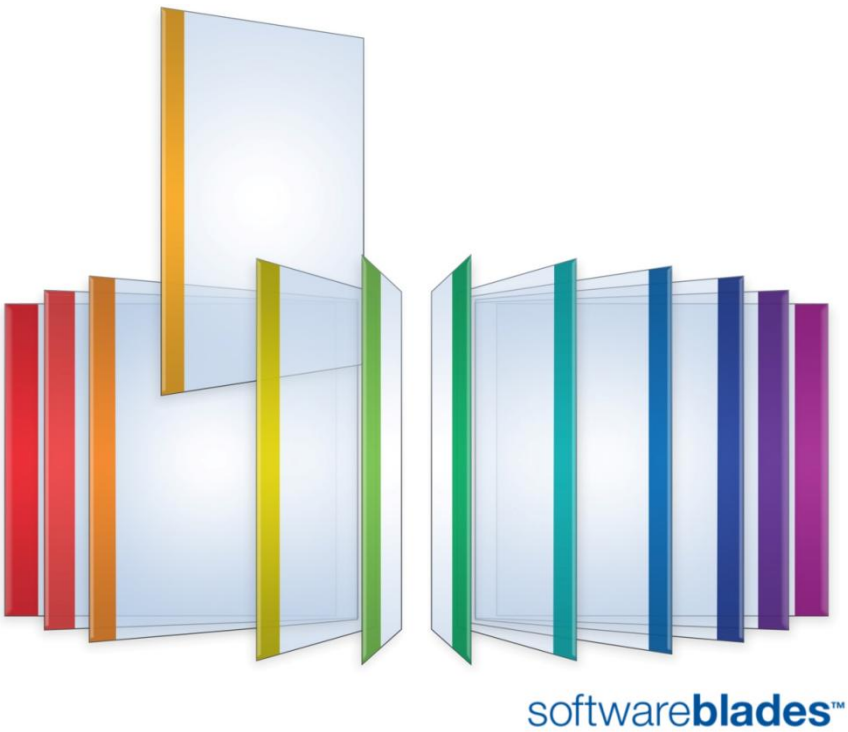
Check Point®
SOFTWARE TECHNOLOGIES LTD.

Power-1

Getting Started Guide

26 August 2010



Models: P-10, P-20, P-30

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Latest Version

The latest version of this document is at:
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For additional technical information, visit the Check Point Support Center (http://supportcenter.checkpoint.com).

Revision History

Date	Description
26 August 2010	Initial version

Feedback

Check Point is engaged in a continuous effort to improve its documentation.

Please help us by sending your comments (mailto:cp_techpub_feedback@checkpoint.com?subject=Feedback on Power-1 Getting Started Guide).

Health and Safety Information

Read the following warnings before setting up or using the appliance.

Warning - Do not block air vents. A minimum 1/2-inch clearance is required.

Warning - This appliance does not contain any user-serviceable parts. Do not remove any covers or attempt to gain access to the inside of the product. Opening the device or modifying it in any way has the risk of personal injury and will void your warranty. The following instructions are for trained service personnel only.

To prevent damage to any system board, it is important to handle it with care. The following measures are generally sufficient to protect your equipment from static electricity discharge:

- When handling the board, to use a grounded wrist strap designed for static discharge elimination.
- Touch a grounded metal object before removing the board from the antistatic bag.
- Handle the board by its edges only. Do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling processor chips or memory modules, avoid touching their pins or gold edge fingers.
- Restore the communications appliance system board and peripherals back into the antistatic bag when they are not in use or not installed in the chassis. Some circuitry on the system board can continue operating even though the power is switched off.
- Under no circumstances should the lithium battery cell used to power the real-time clock be allowed to short. The battery cell may heat up under these conditions and present a burn hazard.

  Warning - DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

- Disconnect the system board power supply from its power source before you connect or disconnect cables or install or remove any system board components. Failure to do this can result in personnel injury or equipment damage.
- Avoid short-circuiting the lithium battery; this can cause it to superheat and cause burns if touched.
- Do not operate the processor without a thermal solution. Damage to the processor can occur in seconds.

For California:

Perchlorate Material - special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate

The foregoing notice is provided in accordance with California Code of Regulations Title 22, Division 4.5, Chapter 33. Best Management Practices for Perchlorate Materials. This product, part, or both may include a lithium manganese dioxide battery which contains a perchlorate substance.

Proposition 65 Chemical

Chemicals identified by the State of California, pursuant to the requirements of the California Safe Drinking Water and Toxic Enforcement Act of 1986, California Health & Safety Code s. 25249.5, et seq. ("Proposition 65"), that is "known to the State to cause cancer or reproductive toxicity" (see http://www.calepa.ca.gov)

WARNING:

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Federal Communications Commission (FCC) Statement:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Information to user:

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

Canadian Department Compliance Statement:

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan Class A Compliance Statement:

この装置は，クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI－A

European Union (EU) Electromagnetic Compatibility Directive

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC).

This product is in conformity with Low Voltage Directive 2006/95/EC, and complies with the requirements in the Council Directive 2006/95/EC relating to electrical equipment designed for use within certain voltage limits and the Amendment Directive 93/68/EEC.

Product Disposal

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.

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Chapter 1

Introduction

In This Chapter

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Welcome

Thank you for choosing Check Point's Power-1. We hope that you will be satisfied with this solution and our support services. Check Point products provide your business with the most up to date and secure solutions available today.

Check Point also delivers worldwide technical services including educational, professional and support services through a network of Authorized Training Centers, Certified Support Partners and Check Point technical support personnel to ensure that you get the most out of your security investment.

For additional information on the Internet Security Product Suite and other security solutions, refer to the Check Point Web site (http://www.checkpoint.com), or call Check Point at 1(800) 429-4391. For additional technical information about Check Point products, consult the Check Point Support Center (http://supportcenter.checkpoint.com).

Welcome to the Check Point family. We look forward to meeting all of your current and future network, application and management security needs.

Power-1 Overview

The family of Power-1™ appliances enables organizations to maximize security in high-performance environments such as large campuses or data centers. Combining integrated firewall, IPSec VPN, and intrusion prevention with advanced acceleration technologies, Power-1 delivers a high-performance security platform capable of blocking application layer threats. Even as new threats appear, Power-1 appliances maintain or increase performance while protecting the network against attacks.

Key Features:

- Proven, enterprise-class firewall, VPN, and intrusion prevention
- Accelerated security performance, including SecureXL and CoreXL technologies
- Integrated load balancing and dynamic routing for data center reliability levels
- Centrally managed from Security Management Server/Provider-1
- Automatic security protection updates from SmartDefense Services

This document provides:

- A brief overview of essential Power-1 concepts and features
- A step by step guide to getting Power-1 up and running

Note - Screen shots in this guide may apply only to the highest model to which this guide applies.

Shipping Carton Contents

This section describes the contents of the shipping carton.

Table 1-1 ***Contents of the Shipping Carton***

Item	Description
Appliance	A single Power-1 appliance:
Rack Mounting Accessories	Hardware mounting kit.
Cables	• 2 Power cables • 1 Standard RJ-45 network cable • 1 Serial console cable • 1 RJ-45 loopback plug
CD	Includes the following: • Getting Started Guide (this guide) • Power-1 Administration Guide • Check Point Software Blades documentation
Documentation	User license agreement.

Terminology

The following terms are used in this guide:

- **Gateway**: The security engine that enforces the organization's security policy and acts as a security enforcement point.
- **Security Policy**: The policy created by the system administrator that regulates the flow of incoming and outgoing communication.
- **Security Management Server**: The server used by the system administrator to manage the security policy. The organization's databases and security policies are stored on the Security Management Server and downloaded to the gateway.
- **SmartConsole**: GUI applications that are used to manage various aspects of security policy enforcement. For example, SmartView Tracker is a SmartConsole application that manages logs.
- **SmartDashboard**: A SmartConsole GUI application that is used by the system administrator to create and manage the security policy.
- **Locally Managed Deployment**: When all Check Point components responsible for both the management and enforcement of the security policy (the Security Management Server and the gateway) are installed on the same machine.
- **Centrally Managed Deployment**: When the gateway and the Security Management Server are installed on separate machines.

Chapter 2

Configuring Power-1

The workflow for configuring Power-1 is:

1. Mount the Power-1 in the rack.
2. Connect the cables and power on.
3. Perform the initial configuration.
4. Add the Power-1 object in SmartDashboard and install a policy.

Note - Security Management Server is not installed locally on Power-1. In a production environment, Power-1 appliances should be centrally managed.

In This Chapter

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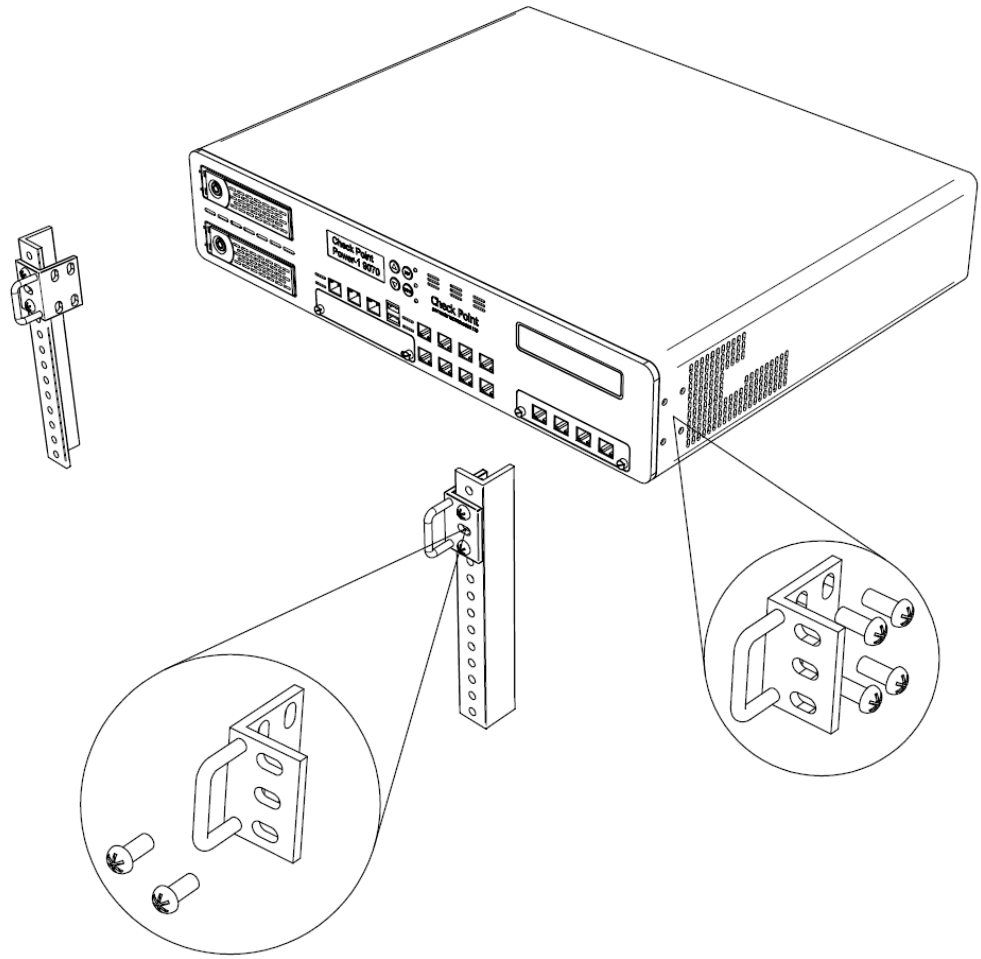
Connecting the Power Cables and Power On	10
Using the First Time Configuration Wizard	11
Creating the Power-1 Object in SmartDashboard	13
Advanced Configuration	13

Mounting Power-1 in a Rack

Mount the system in the rack with the network ports facing the front of the rack.

Figure 2-1 Installing Power-1

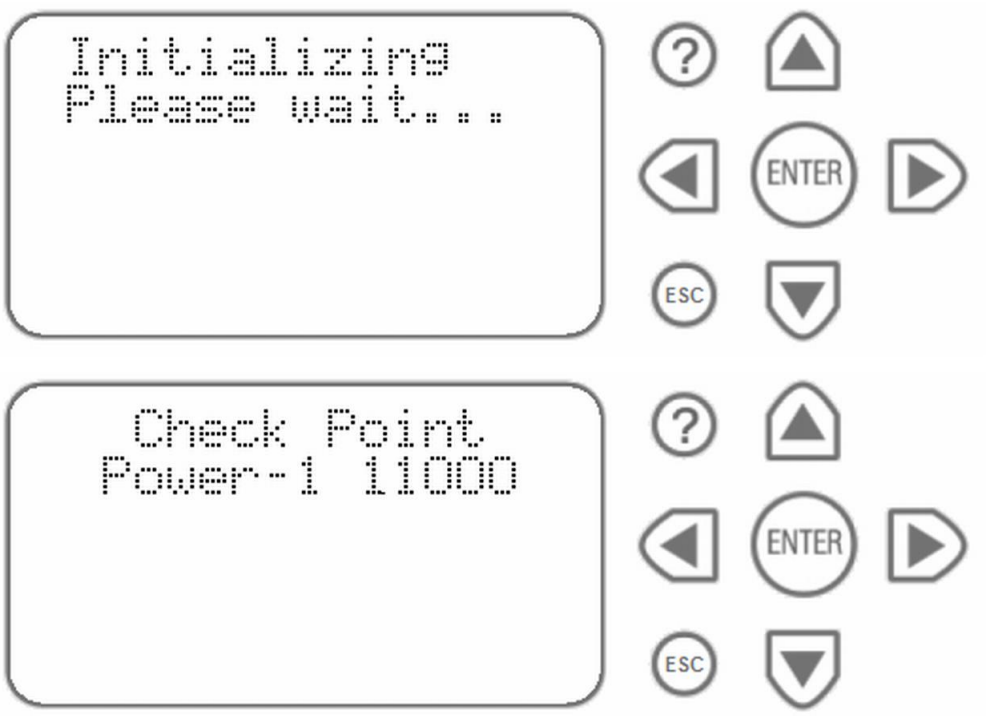


Connecting the Power Cables and Power On

1. Connect the power cables.
2. On the back panel, turn on the **Power** button to start the appliance.

Note - When a power supply fails or is not connected to the outlet, an alarm sounds continuously. If you hear the alarm, replace the faulty power supply immediately, and connect the new unit to an A/C outlet ("Removing the Power Supply" on page 24).

3. Wait for the appliance to initialize and boot. The status of the appliance appears on the LCD screen:



The appliance is ready for use when the model number is displayed.

Using the First Time Configuration Wizard

1. Connect a standard network cable to the appliance's management interface and to your management network.

   The management interface is marked **Internal**. This interface is preconfigured with the IP address 192.168.1.1.
2. Connect to the management interface by connecting from a computer on the same network subnet as the management interface (for example, with IP address 192.168.1.x and netmask 255.255.255.0). This can be changed later through the management interface.
3. To access the administration interface, initiate a connection from a browser to the default administration IP address: https://192.168.1.1:4434.

   Note - Pop-ups must always be allowed on `https://<appliance_ip_address>`.

   The login page appears.
4. Log in with the default system administrator login name/password: **admin**/**admin**, and click **Login**.
5. Change the administrator password, as prompted. The default password gives you initial access to Power-1. Change it to a more secure password.

   In the Password recovery login token section, you can download a Login Token that can be used in the event a password is forgotten. It is highly recommended to save and store the password recovery login token file in a safe place.
6. The **First Time Configuration Wizard** runs. The Wizard presents a number of windows, in which you configure the Date and Time, Network Connections, Routing, DNS Servers, Host and Domain Name, and Deployment Type of Power-1.

   Note - The features configured in the wizard are accessible after completing the wizard via the WebUI menu. The WebUI menu can be accessed by navigating to `https://<appliance_ip_address>:4434`.

   Click **Next**.
7. Configure date and time in the **Appliance Date and Time Setup** window. Click **Apply**.

Click **Next**.

8. Configure Network Connections in the **Network Connections** page.

   If you modify the **Mgmt** address, a secondary interface is automatically created to preserve connectivity. This secondary interface can be removed on the **Network** > **Network Connections** page after the wizard is completed.

   Click **Next**.

9. Configure Routing on the **Routing Table** page.

   Click **Next**.

10. Set the Host and Domain on the **Host and Domain Name** page.

    The host name must start with a letter and cannot be named Com1, Com2....Com9.

    Set the DNS servers on the **DNS Servers** page.

    Click **Next**.

11. Configure client access in the **Web/SSH** window. Define which IP addresses are allowed to connect using Web or SSH Clients. These clients will be able to manage the appliance using a web or SSH connection. Enter a comma-separated list of IP addresses from which you will manage Power-1. Type `Any` to manage Power-1 from any computer.

    These and other advanced configuration options are available via the **WebUI** menu.

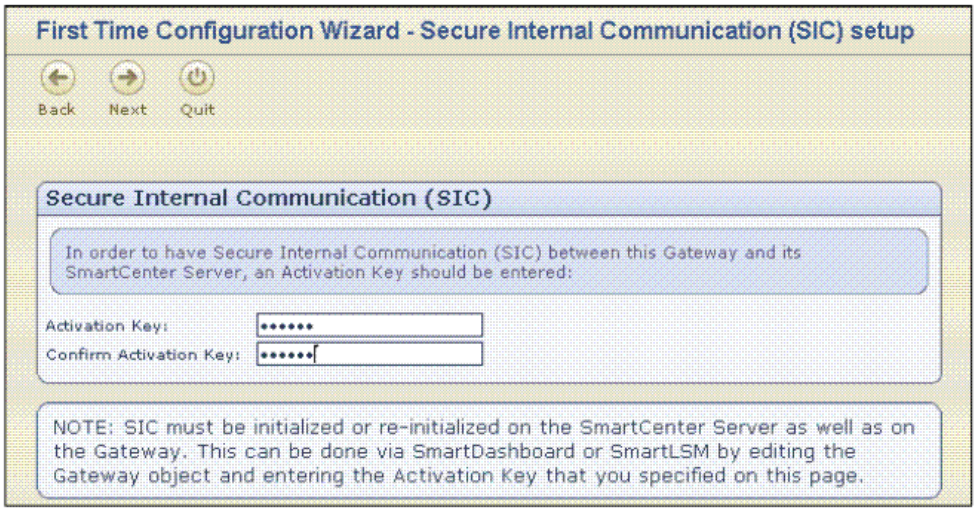
    Click **Next**.

12. Configure the gateway type as either standard, a member of a cluster, or as a type of gateway that uses a dynamically assigned IP address.

    Click **Next**.

13. Establish Secure Internal Communication (SIC) with the SmartCenter server that will manage the Power-1 appliance:

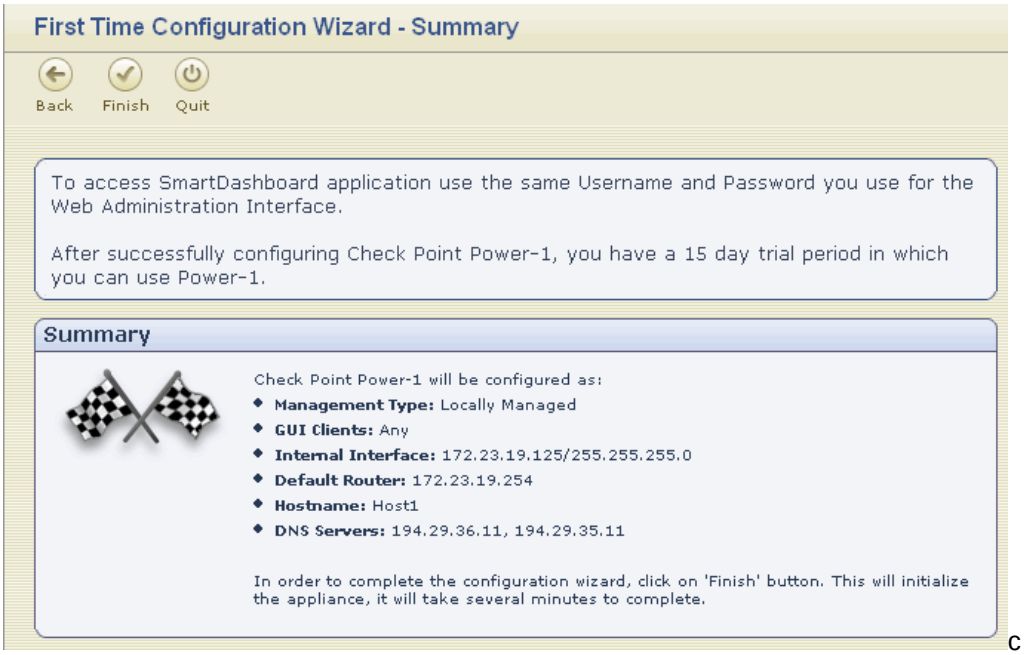
Figure 2-2 Secure Internal Communication


First Time Configuration Wizard - Secure Internal Communication (SIC) setup
Back
Next
Quit
Secure Internal Communication (SIC)
In order to have Secure Internal Communication (SIC) between this Gateway and its SmartCenter Server, an Activation Key should be entered:
Activation Key:
Confirm Activation Key:
NOTE: SIC must be initialized or re-initialized on the SmartCenter Server as well as on the Gateway. This can be done via SmartDashboard or SmartLSM by editing the Gateway object and entering the Activation Key that you specified on this page.

   SIC must be initialized or re-initialized on the SmartCenter server as well as on the gateway. In SmartDashboard, on the **General Properties** window of the gateway object, enter the activation key that you specified here.

   Click **Next**.

14. The **Summary** page appears.


First Time Configuration Wizard - Summary
Back
Finish
Quit
To access SmartDashboard application use the same Username and Password you use for the Web Administration Interface.
After successfully configuring Check Point Power-1, you have a 15 day trial period in which you can use Power-1.
Summary
Check Point Power-1 will be configured as:
Management Type: Locally Managed
GUI Clients: Any
Internal Interface: 172.23.19.125/255.255.255.0
Default Router: 172.23.19.254
Hostname: Host1
DNS Servers: 194.29.36.11, 194.29.35.11
In order to complete the configuration wizard, click on 'Finish' button. This will initialize the appliance, it will take several minutes to complete.
c

Click **Finish** to complete the First Time Configuration Wizard. The machine will automatically restart (this may take several minutes).

Note - It is recommended to backup the system configuration. The backup menu can be accessed via the WebUI interface under the **Appliance** menu. For further details, see the *Power-1 Administration Guide* included on the CD.

Creating the Power-1 Object in SmartDashboard

Configure the Power-1 appliance as a gateway object in the Security Management Server database.

1. Launch SmartDashboard.
2. Configure a new gateway object for the appliance.
3. Enter the IP address for the Power-1 appliance.
4. For a distributed installation, establish Secure Internal Communication (SIC) using the activation key entered in the First Time Configuration Wizard.
5. Configure the topology.
6. Install the security policy.

Advanced Configuration

Advanced configuration can be done using the `sysconfig` menu which can be accessed using the command line interface only. For example, configuring the appliance to be a DHCP server.

Note - The `sysconfig` menu is only available after running the **First Time Configuration Wizard** in the WebUI.

CLI access can be obtained by console connection or through SSH.

Connecting to the Power-1 CLI

You can connect to the command line interface of the Power-1 appliance using:

- The provided serial console cable (DTE to DTE) and terminal emulation software such as HyperTerminal (from Windows) or Minicom (from Unix/Linux systems).

  Connection parameters for Power-1 appliances are: 9600bps, no parity, 1 stop bit (8N1).

- An SSH connection to the management interface (if sshd is configured).

Chapter 3

Power-1 Hardware

This chapter provides instructions for installing and removing hardware components on the Power-1 appliance.

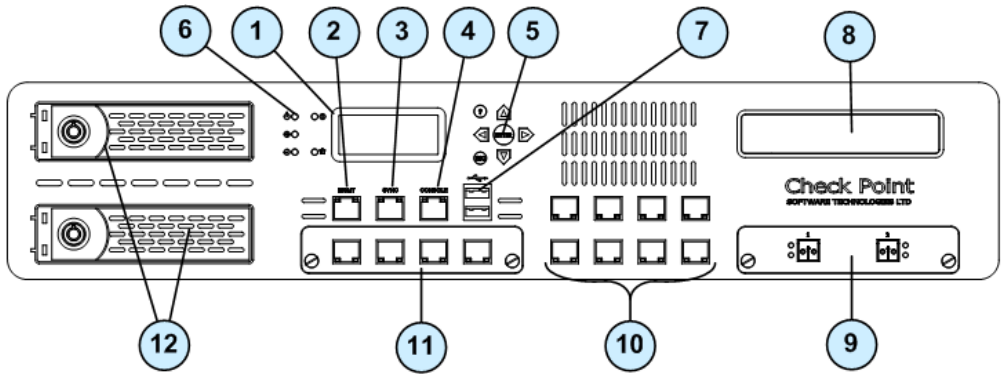
In This Chapter

Front Panel Components 16
Rear Panel Components 21
Customer Replaceable Parts 23

Front Panel Components

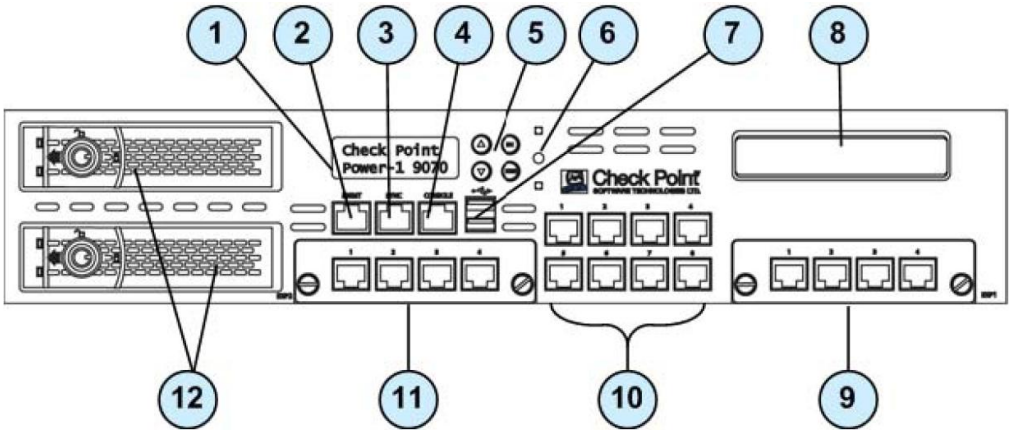
This section describes the features and components located on the appliance front panel.

Power-1 11000 Series Front Panel



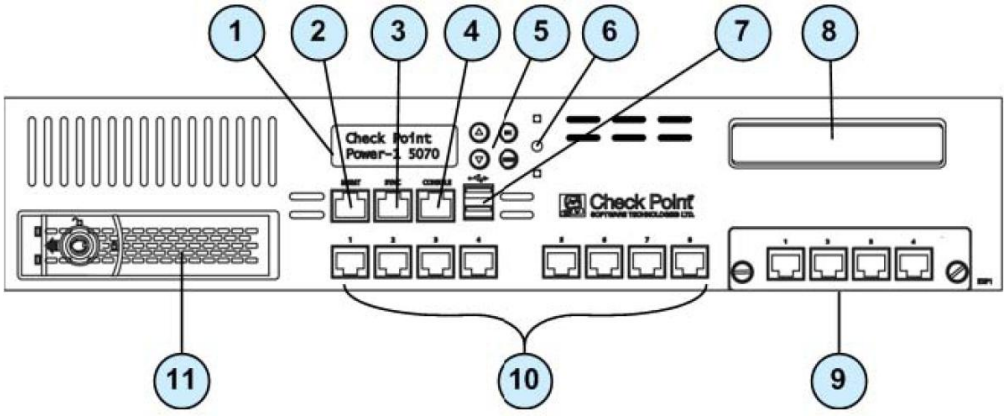
Key	Description
1	LCD display screen
2	Management connection port - Ethernet connection to a remote management workstation
3	Synchronization port - for synchronizing with cluster members or a high availability peer
4	Console port - for a serial connection to the appliance using a terminal emulation program such as HyperTerminal
5	Keypad
6	Power indicator LED
7	USB ports
8	Future expansion slot
9	Expansion line card exp1 (2 or 4 ports)
10	Built in Ethernet ports (`Lan1` - `Lan8`)
11	Expansion line card exp2 (2 or 4 ports)
12	Hard disk drive

Power-1 9070 Front Panel



Key	Description
1	LCD display screen
2	Management connection port - Ethernet connection to a remote management workstation
3	Synchronization port - for synchronizing with cluster members or a high availability peer
4	Console port - for a serial connection to the appliance using a terminal emulation program such as HyperTerminal
5	Screen operation keys
6	Power indicator LED
7	USB ports
8	Future expansion slot
9	Expansion line card exp1 (2 or 4 ports)
10	Built in Ethernet ports (Lan1 - Lan8)
11	Expansion line card exp2 (2 or 4 ports)
12	Hard disk drive

Power-1 5070 Front Panel



Key	Description
1	LCD display screen
2	Management connection port - Ethernet connection to a remote management workstation
3	Synchronization port - for synchronizing with cluster members or a high availability peer
4	Console port - for a serial connection to the appliance using a terminal emulation program such as HyperTerminal
5	Screen operation keys
6	Power indicator LED
7	USB ports
8	Future expansion slot
9	Expansion line card exp (2 or 4 ports)
10	Built in Ethernet ports (Lan1 - Lan8)
11	Hard disk drive

Managing Power-1 Using the LCD Panel

The appliance has an LCD panel that can be used to perform basic management operations. The management IP address, netmask, and default gateway of the appliance can be configured. The appliance can also be rebooted.

Menu Options

Menu	Sub-menu	Purpose
Network		
	DHCP	Enable or disable IP address allocation using DHCP

Menu	Sub-menu	Purpose
	Set Internal IP *or* Set Mgmt IP	Set the management interface IP address (cannot be edited when DHCP is enabled)
	Set Netmask	Set the management interface network mask (cannot be edited when DHCP is enabled)
	Set Default GW	Set the management interface default gateway (cannot be edited when DHCP is enabled)
System		
	Reboot	Reboot the appliance

LCD Panel Keys

To	Press
Enter the main menu	
Navigate the menu	
Select a menu option	
Go back to previous menu	

When Entering an IP Address

To	Press
Move to the next digit	
Move back to the previous digit	
Approve the change	when the cursor is located on the last digit
Cancel the IP change	when the cursor is located on the first digit
Change current digit	

Expansion Line Cards

The Power-1 appliance contains optional expansion slots that accommodate cold-swappable network line cards.

- Power-1 5070 supports one network expansion slot
- Power-1 9070 supports two network expansion slots

According to type, each expansion line card contains two or four ports. The following types of expansion line card are currently available:

Table 3-2 ***Compatible line cards***

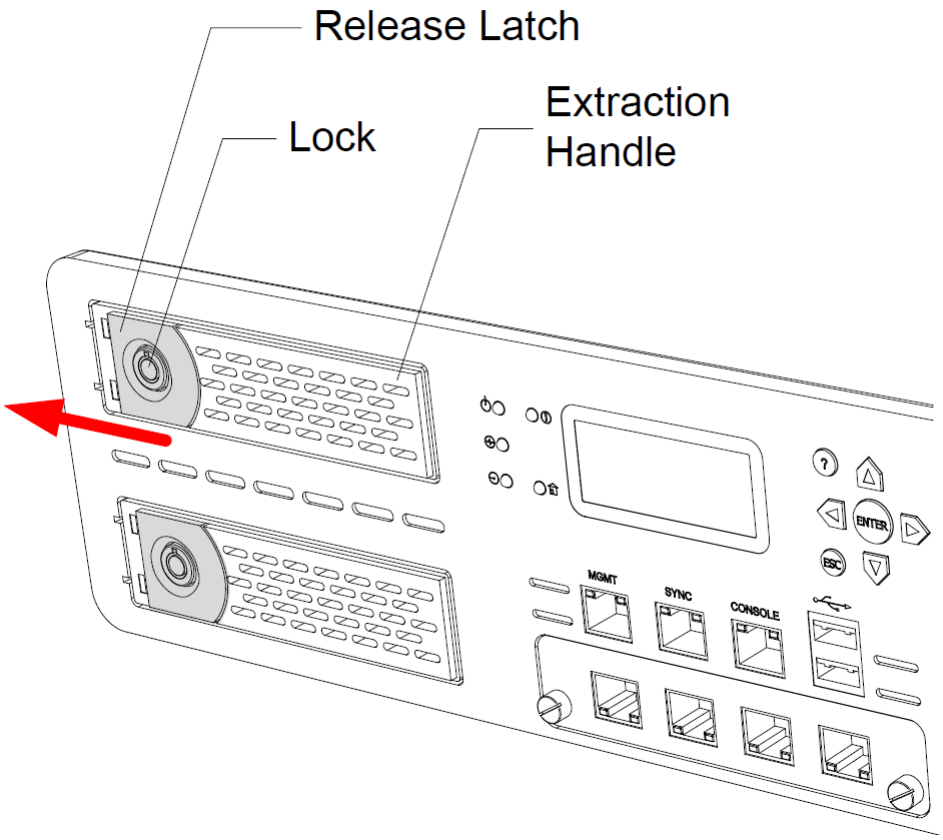
Model	Description
CPPWR-ACC-4-1C	1000BaseT line card
CPPWR-ACC-4-1SRF	1GbE Multi-mode SR fiber optic line card
CPPWR-ACC-4-1LRF	1GbE Single-mode LR fiber optic line card
CPPWR-ACC-2-10SRF	10GbE Multi-mode SR fiber optic line card
CPPWR-ACC-2-10LRF	10GbE Single-mode LR fiber optic line card

Hard Disk Drives

Power-1 5070 contains one hard disk drive. The hard disk drive is not hot-swappable. You must power the appliance off before attempting to remove or install a hard disk drive.

Power-1 9070 and 11000 series models contain two hot-swappable redundant hard disk drives (RAID1).

Figure 3-3 Hard Disk Drives



RAID1 Mirroring

Implemented by a dedicated RAID controller, the Power-1 9070 model performs RAID1 mirroring across two hard disk drives. Mirror rebuild is automatic.

Rear Panel Components

This section describes components located on the rear panel of the appliance.

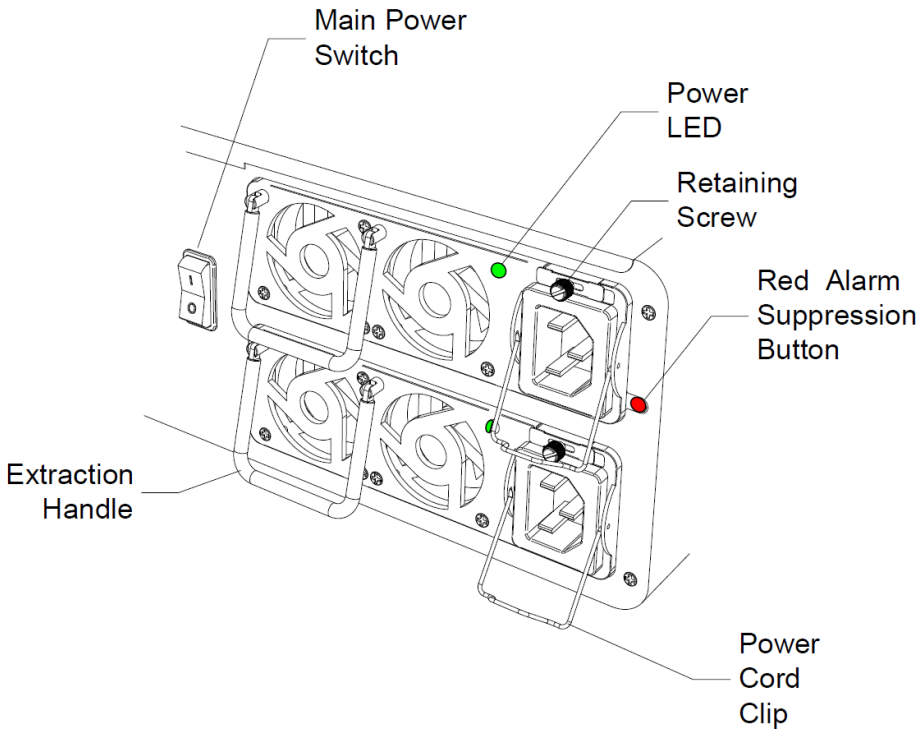
Main Power Switch

The main power switch controls power to the entire unit. This appliance has two main power switches for your convenience.

Redundant Power Supply Units

Located at the right rear of the appliance, two hot-swappable power supply units provide built-in power redundancy. Each power supply connects to an electric outlet.

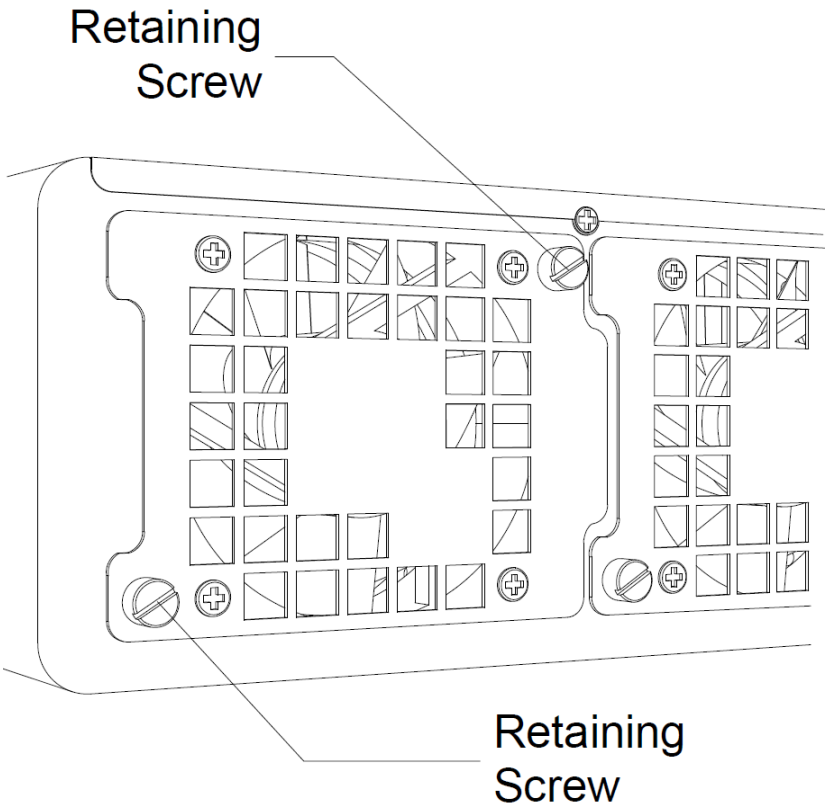
Figure 3-4 Redundant Power Supply Units



When a power supply fails or is not connected to the outlet, an alarm sounds continuously.

Cooling Fans

The Power-1 appliance contains three replaceable cooling fans. Each cooling fan operates independently of the others, providing redundancy in the event of failure.



Customer Replaceable Parts

To ensure maximum availability and ease of maintenance, the Power-1 appliance contains the following customer replaceable parts:

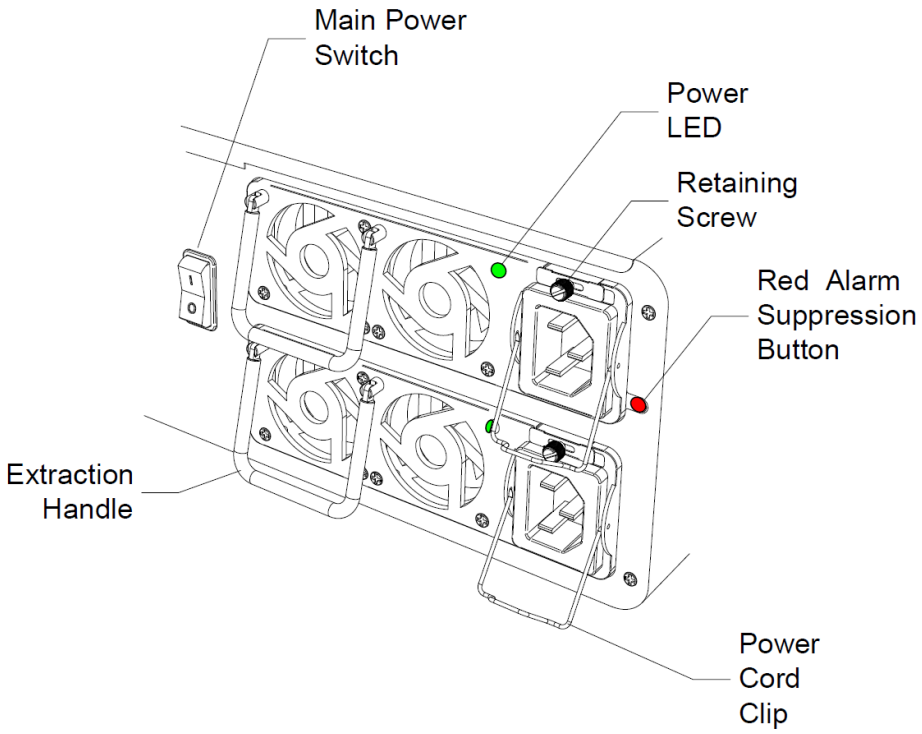
	Power-1 5070	Power-1 9070	Power-1 11000 Series
Power supplies	2	2	2
Cooling fans	3	3	3
Expansion line cards	1	1 with additional slot	1 with additional slot
Hard disk drives	1	2 (RAID-1) Hot swappable	2 (RAID-1) Hot swappable

Unless directed to do so by Check Point technical support, customers are prohibited by warranty and support agreements from replacing any parts. Customers are prohibited from opening the Power-1 case under any circumstances.

Power Supply

This section presents the procedures for removing and installing a power supply unit. Power-1 appliance contains two redundant power supplies.

Figure 3-5 Redundant Power Supply Units



Removing the Power Supply

To remove a power supply unit:

1. If the alarm sounds, press the red alarm button to the right of the power supply. The alarm stops.
2. Remove the power cord.
3. Loosen the retaining screw located above the power socket.
4. Pull the extraction handle to remove the power supply unit.

Note - Use only the extraction handle to remove the power supply unit. To prevent damaging the power supply, do not pull on the retaining screw, power cord clip or any other part of the unit.

Installing the Power Supply

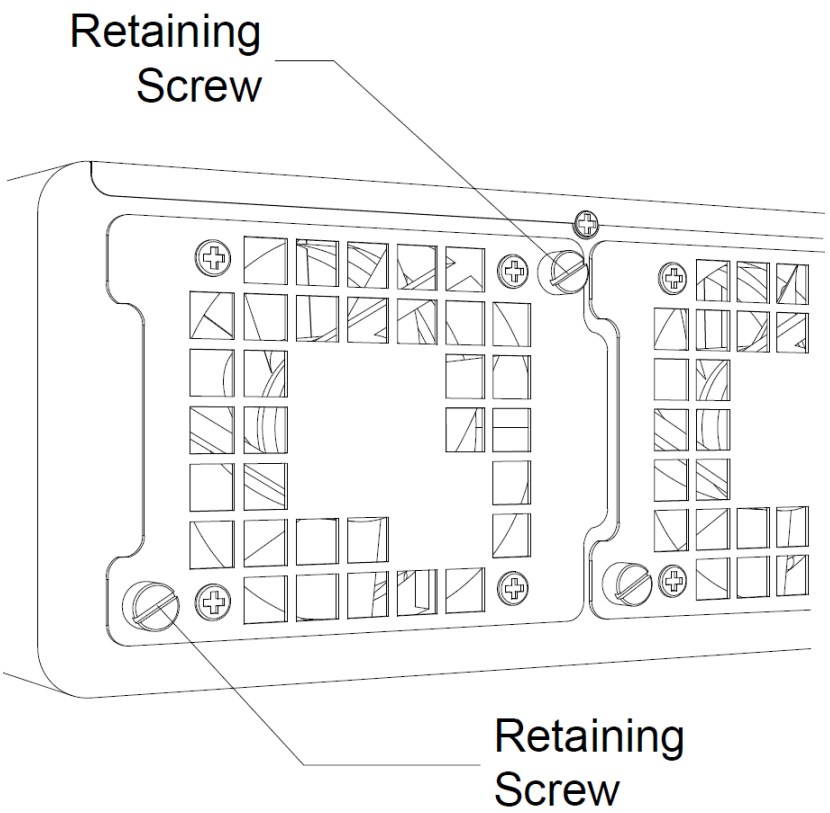
To install a replacement power supply:

1. Insert the power supply into its slot and push firmly until it clicks into place.
2. Tighten the retaining screws.
3. Insert the power cord. Verify that the green LED is illuminated.

Cooling Fan

This section presents the procedures for removing and installing a fan unit. The Power-1 appliance contains three cooling fans. It is not necessary to power off the appliance before adding or removing a fan unit.

Figure 3-6 Cooling Fans



Removing Fan Units

To remove a fan unit:

1. Loosen the four retaining screws in the corners of the fan assembly.
2. Gently pull the fan unit out of the appliance.

Installing Fan Units

To install a fan unit:

1. Insert the fan unit into the appliance. Push firmly until it clicks into place.
2. Tighten the four retaining screws in the corners of the fan assembly.

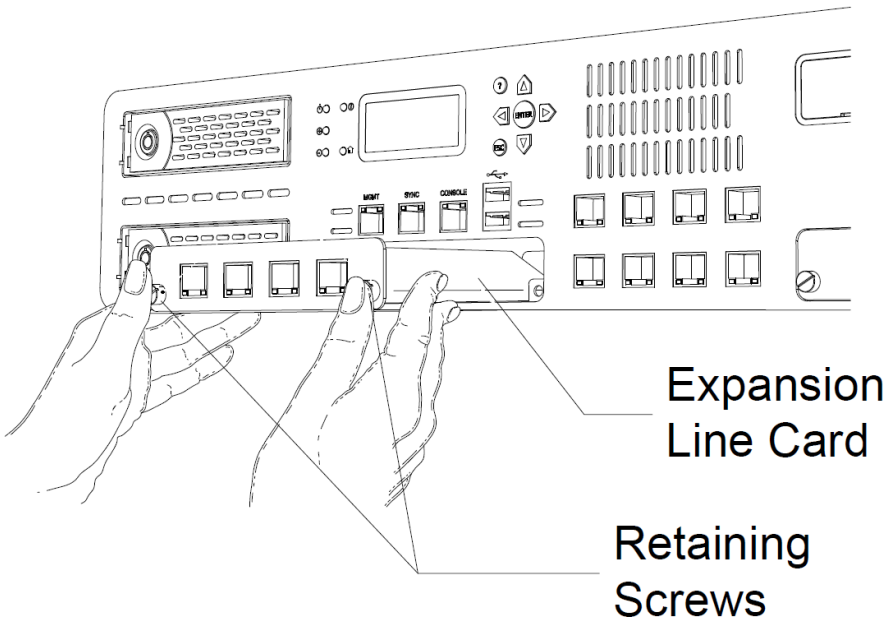
Expansion Line Card

This section presents the procedures for removing and installing an expansion line card unit. The built-in Ethernet ports (Lan1 Lan8) are not customer replaceable.

	Power-1 5070	Power-1 9070	Power-1 11000 Series
Expansion line cards	1	1 with additional slot	1 with additional slot

Important - Make certain that you are electromagnetically grounded when performing the following procedures. Static electricity can damage the appliance.

Figure 3-7 Expansion Line Card



Removing Expansion Line Cards

To remove an expansion line card:

1. Power off the appliance and remove the power cords from the power supply units.
2. Loosen the retaining screws on either side of the expansion line card.
3. Holding the screws, pull the expansion line card out of the slot.

Installing Expansion Line Cards

To install an expansion line card:

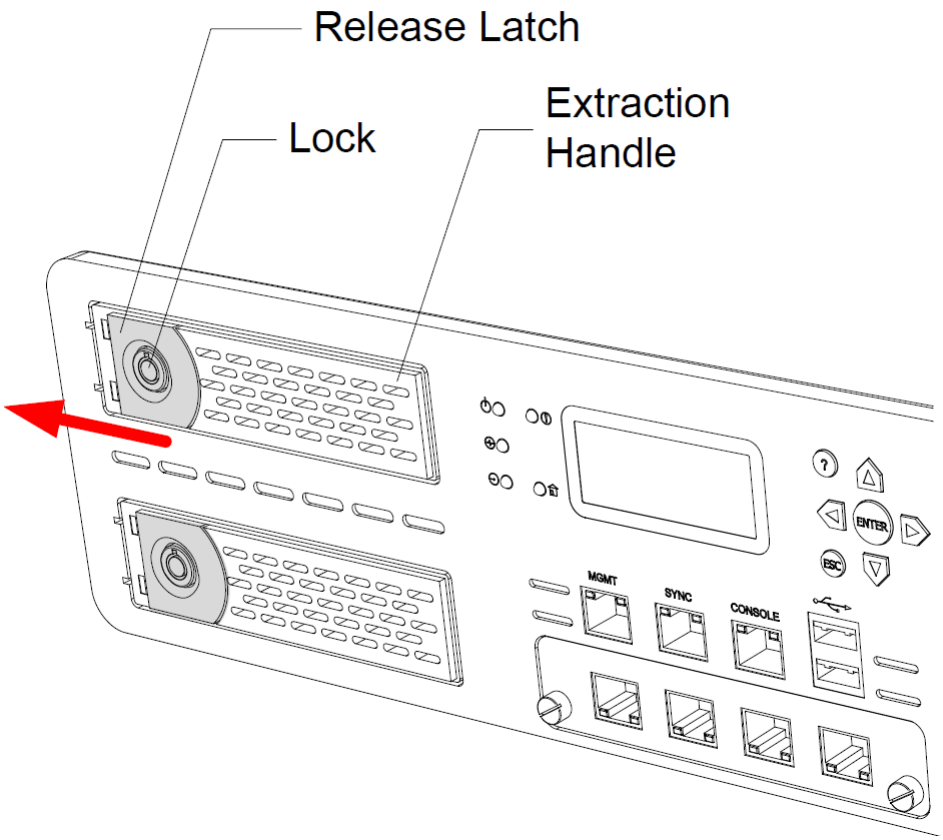
1. Power off the appliance and remove the power cords from the power supply units.
2. Insert the expansion line card into the slot.
3. Push until the card clicks into place.
4. Tighten the retaining crews on either side of the expansion line card.

Hard Disk Drive

This sections covers installing or removing a hard disk drive.

	Power-1 5070	Power-1 9070	Power-1 11000 Series
Hard disk drives	1	2 (RAID-1) Hot swappable	2 (RAID-1) Hot swappable

Figure 3-8 Hard Disk Drives



Removing a Hard Disk Drive

To remove a hard disk drive:

1. **Power-1 5070 only:** Hard disk drive is not hot-swappable. Turn off the appliance and remove the power cords from the power supply unit before attempting to remove the hard disk drive.
2. Using the key supplied in the toolkit, unlock the drive.
3. Slide the release latch toward the left (see the arrow in diagram). The extraction handle pops out.
4. Using the extraction handle, remove the drive from the slot.

Installing a Hard Disk Drive

To install a hard disk drive:

1. **Power-1 5070 only:** Hard disk drive is not hot-swappable. Turn off the appliance and remove the power cords from the power supply unit before attempting to remove the hard disk drive.
2. Slide the replacement hard disk drive into the slot.
3. Push the extraction handle until it closes and the drive clicks into place.
4. Using the key supplied in the toolkit, lock the new drive in place.

Chapter 4

Restoring Factory Defaults

As part of the troubleshooting process, it may be necessary to restore the Power-1 appliance to its factory default settings.

You can restore your Power-1 appliance to the factory default image using one of the following methods:

- Using the WebUI
- Through the console boot menu
- Using the LCD panel

Important - Restoring factory defaults deletes all information on the appliance.

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Restoring Using the Console Boot Menu 28
Restoring Using the LCD Panel 29

Restoring Using the WebUI

To restore the appliance to its default factory configuration using the WebUI:

1. In the WebUI, click **Appliance** > **Image Management**.
   The Image Management window opens:
2. Select the relevant image version you wish to revert to.
3. Click **Revert**.

Restoring Using the Console Boot Menu

To restore the Power-1 appliance to its default factory configuration using the console boot menu:

1. Connect the supplied DB9 serial cable to the console port on the front of the appliance.
2. Connect to Power-1 using a terminal emulation program such as **Microsoft HyperTerminal**, the program used here.
3. In the HyperTerminal **Connect To** window, select a port from the **Connect using** list. Define the port settings: 9600 BPS, 8 bits, no parity, 1 stop bit.
4. From the **Flow control** list, select **Hardware**.
5. Click, **Call > Call** to connect to the appliance.
6. Switch on Power-1. The appliance begins the boot process and status messages appear in HyperTerminal.

7. During the Power-1 boot process, text similar to that shown below appears:

Figure 4-9 Activating the Boot menu in HyperTerminal

```
IDE Channel 2 . Master Disk  : LBA,ATA 100,  164GB

PCI device listing ...
Bus No. Device No. Func No. Vendor/Device Class Device Class                IRQ
-------------------------------------------------------------------------------
    0       2         0     8086   2772   0300  Display Cntrlr              10
    0      29         0     8086   27C8   0C03  USB 1.0/1.1 UHCI Cntrlr     15
    0      29         1     8086   27C9   0C03  USB 1.0/1.1 UHCI Cntrlr     15
    0      29         2     8086   27CA   0C03  USB 1.0/1.1 UHCI Cntrlr      5
    0      29         3     8086   27CB   0C03  USB 1.0/1.1 UHCI Cntrlr     10
    0      31         1     8086   27DF   0101  IDE CntrlrCI Cntrlr         14
    0      31         2     8086   27C0   0101  IDE Cntrlr                  15
    0      31         3     8086   27DA   0C05  SMBus Cntrlr                15
    1       0         0     8086   109A   0200  Network Cntrlr              10
    2       0         0     8086   109A   0200  Network Cntrlr              11
    3       0         0     8086   109A   0200  Network Cntrlr               5
    4       0         0     8086   109A   0200  Network Cntrlr              15
    5       0         0     8086   109A   0200  Network Cntrlr              10
    6       0         0     8086   109A   0200  Network Cntrlr              11
    7      12         0     8086   1076   0200  Network Cntrlr              10
    7      13         0     8086   1076   0200  Network Cntrlr              11
                                                 ACPI Controller              9
Verifying DMI Pool Data ..........
Press any key to see the boot menu [Booting in 4 seconds] _
```

8. At this point, you have approximately four seconds to hit any key to activate the Boot menu.
9. The **Boot** menu opens. Scroll to the relevant **Reset to factory defaults** image and press **Enter**.

Restoring Using the LCD Panel

To restore the Power-1 appliance to its default factory configuration using the LCD Panel keys:

1. Reboot or power on the appliance.
2. When the countdown begins, press any of the arrow keys.

   The **Boot** menu appears.
3. Using the arrow buttons, scroll to the relevant default factory image.
4. Press .
5. Confirm the reset by pressing .

Pressing any other button causes the Action Canceled message to display:

At this point, pressing any key returns you to the boot menu.

6. Once you have confirmed the reset, wait for the appliance to restore the factory image. While the appliance is restored to the default image, a Reverting image don't turn off message displays continuously.

   When the appliance has been restored to its default factory configuration, the appliance reboots and the initializing message appears.

Chapter 5

Registration and Support

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Registration

Power-1 requires a specific Check Point license. Obtain a license and register at the Check Point Appliance Registration site (http://register.checkpoint.com/cpapp).

Support

For additional technical information about Check Point products, consult the Check Point Support Center (http://supportcenter.checkpoint.com).

Where To From Here?

You have now learned the basics that you need to get started. The next step is to obtain more advanced knowledge of your Check Point software.

See the *Power-1 Administration Guide*, also available on the CD.

Other Check Point documentation is available in PDF format on the Check Point CD supplied with the appliance as well as on the Technical Support site (http://supportcenter.checkpoint.com).

Be sure to also use the Online Help when you are working with the Check Point SmartConsole clients.